

## Message Text

UNCLASSIFIED

PAGE 01 KUWAIT 03340 191443Z  
ACTION PM-04

INFO OCT-01 NEA-10 ISO-00 OES-07 CIAE-00 INR-07  
NSAE-00 SS-15 NSC-05 /049 W  
-----005135 191446Z /43

R 191335Z JUN 77  
FM AMEMBASSY KUWAIT  
TO NAVPRO LONG BEACH CA  
INFO SECSTATE WASHDC 8287  
CNO WASHDC//OP-632C//  
CHNAVMAT WASHDC//MAT-08F//  
COMNAVAIRSYSCOM WASHDC//APC-4/APC-237//

UNCLAS KUWAIT 3340

FROM USLOK/WSLO

E.O. 11652: N/A  
TAGS: MASS, KU  
SUBJECT: FMS CASE KU-SAG-P4/KU-LAE-P5: OMEGA NAVIGATIONS SYSTEM

REF: NAVPRO LONG BEACH CA 141632Z JUN 77

1. COPY OF REFTEL WAS PASSED TO KAF TECH AFFAIRS UNDER WSLO  
MEMO 16JUN77. RESPONSE RECEIVED UNDER KAF TECH MEMO  
TS/283/77/11 DATED 16JUN77, SUBSTANTIVE PORTION OF  
WHICH STATES: QUOTE  
"INTRO: WE BELIEVE THE U.S. NAVY CONDITIONALLY ACCEPTED  
THE C-9K AIRCRAFT ON BEHALF OF THE GOK DUE TO THE OMEGA  
SYSTEM NOT PERFORMING IN ACCORDANCE WITH THE SPECIFICATIONS.  
THIS BELIEF IS BASED ON VERBAL INFORMATION, SINCE WE HAVE  
NOT OBTAINED WRITTEN CONFIRMATION TO THIS EFFECT.  
"C9K: BECAUSE OF THE MANY IN-FLIGHT FAILURES OF THE OMEGA  
SYSTEM WHILE OPERATING THE C9K AIRCRAFT IN KUWAIT, THE PILOTS  
HAVE NOW REACHED THE POINT WHERE THEY ARE NOT BOTHERING TO  
WRITE THE DEFICIENCIES IN THE AIRCRAFT LOG. IN FACT,  
THE PILOTS ARE PROBABLY NOT EVEN SWITCHING THE SYSTEM ON  
UNCLASSIFIED

UNCLASSIFIED

PAGE 02 KUWAIT 03340 191443Z

SINCE THEY HAVE LOST CONFIDENCE IN IT.  
"C130: THE C130 SYSTEM APPEARS TO BE A MORE ACCURATE  
NAVIGATION SYSTEM THAN THE C9K INSTALLATION; HOWEVER, IT  
IS BUGGED BY A FAIR AMOUNT OF COMPONENT FAILURES AS  
EVIDENCE BY THE NUMBER OF ITMES RETURNED FOR REPAIR  
UNDER "WARRANTY".  
"IN CONCLUSION: TO MAKE SPECIFIC COMPLAINTS AT THIS

STAGE MAY ONLY CONFUSE THE ISSURE FURTHER. IT IS SUGGESTED THAT THE REPORT ISSUED BY MR. LATCHFORD ON 11MAY77 BE USED AS THE BASIS FOR IMPROVING THE SYSTEM INTERFACE IN RESPECT TO THE C9K. HOPEFULLY, THE IMPROVEMENTS RECOMMENDED WILL LEAD TO A SATISFACTORY SOLUTION TO OUR PROBLEM." END QUOTE.

2. BELIEVE THAT THE KUWAIT OMEGA PROBLEM IS WELL DOCUMENTED BY THE VARIOUS TEAMS WHO HAVE COME TO KUWAIT TO STUDY THE PROBLEM. THIS DATA, IS, OR SHOULD BE, AVAILABLE FROM THE PROGAM MANAGEMENT OFFICE, NAVAIR APC-4. RECAP OF THE LATCHFORD REPORT REFERENCED ABOVE HIGHLIGHTED THE FOLLOWING PROBLEM AREAS:

A. THE OMEGA HARDWARE PERFORMS NORMALLY IN THE LAB AND ON THE GROUND IN ALL AIRCRAFT. AIRBORNE PROBLEMS WERE OBSERVED DUE TO POWER INTCAUSING RESTARTS OF THE SYSTEM. SOFTWARE IMPROVEMENTS IN THE OMEGA STATION SWITCHING AREA WILL HELP PERFORMANCE. TWO COMPUTER FAILURES IN FLIGHT OCCURRED WHICH CAUSED THE SYSTEM TO BE INOPERATIVE.

B. THE LAB BENCH SETUP IS ADEQUATE AT THIS STAGE TO TROUBLESHOOT AND ISOLATE MOST HARDWARE FAILURES. ADDITIONAL DOCUMENTATION IS REQUIRED FOR THE LAB OPERATION.

3. THE LATCHFORD REPORT MADE THE FOLLOWING RECOMMENDATIONS FOR IMPROVEMENTS IN THE SYSTEMS:

A. SOFTWARE MODIFICATIONS- IMPROVE THE OMEGA STATION SWITCHING CRITERIA. LOWER THE TAS LOWER LIMIT TO 100 KNOTS FROM 120 KNOTS. THIS WILL HELP ON THE C-130 AIRCRAFT TO PREVENT THE DR LIGHT FROM COMING ON DURING UNCLASSIFIED

UNCLASSIFIED

PAGE 03 KUWAIT 03340 191443Z

LANDING AND APPROACH. ADD A BEARING/RANGE DISPLAY TO DEFINE TRACK LEGS BETWEEN ANY TWO WAYPOINTS.

B. POWER- MODIFY THE SYSTEM OR THE AIRCRAFT SO THAT THE OMEGA SYSTEM IS NOT SUSCEPTIBLE TO POWER TRANSIENTS CAUSED BY OTHER EQUIPMENT. U.S. NAVY IS NOW INVESTIGATING THIS PROBLEM.

C. CDU LOCATION- RELOCATE THE CDU ON THE C-9K SO THAT IT IS MORE EASILY OPERATED AND OBSERVED BY BOTH PILOTS.

D. DOCUMENTATION- OBTAIN MANUALS FOR THE LAB TEST STATION TO AID TROUBLESHOOTING AND MAINTENANCE. IMPROVE AND SIMPLIFY THE OPERATOR PROCEDURES FOR PILOT USE. CREATE A BRIEF OPERATIONAL CHECKLIST FOR AIRBORN USE.

E. OMEGA STATION STATUS -OBTAIN STATION STATUS FROM U.S. COAST GUARD WEEKLY.

4. WSLO REP RECOMMENDS COORDINATE ANY ACTION TAKEN WITH NAVAIR APC-4.

MAESTRONE

UNCLASSIFIED

NNN

## Message Attributes

**Automatic Decaptioning:** X  
**Capture Date:** 01-Jan-1994 12:00:00 am  
**Channel Indicators:** n/a  
**Current Classification:** UNCLASSIFIED  
**Concepts:** NAVAL FORCES, MILITARY AIRCRAFT  
**Control Number:** n/a  
**Copy:** SINGLE  
**Sent Date:** 19-Jun-1977 12:00:00 am  
**Decaption Date:** 01-Jan-1960 12:00:00 am  
**Decaption Note:**  
**Disposition Action:** n/a  
**Disposition Approved on Date:**  
**Disposition Case Number:** n/a  
**Disposition Comment:**  
**Disposition Date:** 01-Jan-1960 12:00:00 am  
**Disposition Event:**  
**Disposition History:** n/a  
**Disposition Reason:**  
**Disposition Remarks:**  
**Document Number:** 1977KUWAIT03340  
**Document Source:** CORE  
**Document Unique ID:** 00  
**Drafter:** n/a  
**Enclosure:** n/a  
**Executive Order:** N/A  
**Errors:** N/A  
**Expiration:**  
**Film Number:** D770219-0048  
**Format:** TEL  
**From:** KUWAIT  
**Handling Restrictions:** n/a  
**Image Path:**  
**ISecure:** 1  
**Legacy Key:** link1977/newtext/t19770642/aaaabkfu.tel  
**Line Count:** 115  
**Litigation Code IDs:**  
**Litigation Codes:**  
**Litigation History:**  
**Locator:** TEXT ON-LINE, ON MICROFILM  
**Message ID:** 2662827a-c288-dd11-92da-001cc4696bcc  
**Office:** ACTION PM  
**Original Classification:** UNCLASSIFIED  
**Original Handling Restrictions:** n/a  
**Original Previous Classification:** n/a  
**Original Previous Handling Restrictions:** n/a  
**Page Count:** 3  
**Previous Channel Indicators:** n/a  
**Previous Classification:** n/a  
**Previous Handling Restrictions:** n/a  
**Reference:** n/a  
**Retention:** 0  
**Review Action:** RELEASED, APPROVED  
**Review Content Flags:**  
**Review Date:** 27-Dec-2004 12:00:00 am  
**Review Event:**  
**Review Exemptions:** n/a  
**Review Media Identifier:**  
**Review Release Date:** n/a  
**Review Release Event:** n/a  
**Review Transfer Date:**  
**Review Withdrawn Fields:** n/a  
**SAS ID:** 2101705  
**Secure:** OPEN  
**Status:** NATIVE  
**Subject:** FMS CASE KU-SAG-P4/KU-LAE-P5: OMEGA NAVIGATIONS SYSTEM  
**TAGS:** MASS, KU  
**To:** NAVPRO LONG BEACH CA  
**Type:** TE  
**vdkgvwkey:** odb://SAS/SAS.dbo.SAS\_Docs/2662827a-c288-dd11-92da-001cc4696bcc  
**Review Markings:**  
Margaret P. Grafeld  
Declassified/Released  
US Department of State  
EO Systematic Review  
22 May 2009  
**Markings:** Margaret P. Grafeld Declassified/Released US Department of State EO Systematic Review 22 May 2009